

Mobility and Sensing Technology (MST)

Completed Technology Project (2015 - 2019)



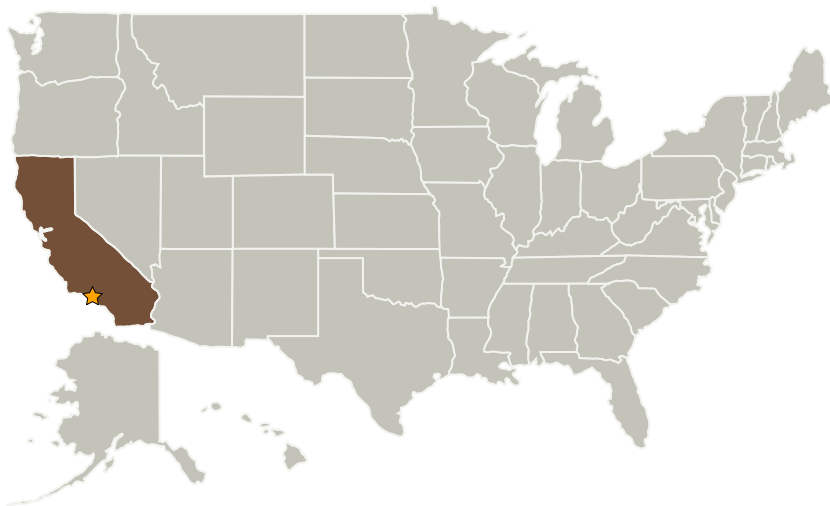
Project Introduction

Develop autonomous mobility and sensing systems to operate in the environmental and surface conditions found on icy bodies

Anticipated Benefits

NASA funded: This technology has potential to benefit the Europa Lander mission via development of an increased understanding of robotic systems interfacing to the icy surface and sub-surface. NASA unfunded: This technology will benefit future mission to the Ocean Worlds through development of advanced mobility required to navigate science instrument in extreme and uncertain terrains, and sensors to required to explore and execute scientific sampling operations in those terrains and environments. Nation: Will enable scientific discovery on future mission to Ocean Worlds.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Jet Propulsion Laboratory (JPL)	Lead Organization	NASA Center	Pasadena, California



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Game Changing Development

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Primary U.S. Work Locations

California

Project Website:

<https://www.nasa.gov/directorates/spacetech/home/index.html>

Project Management

Program Director:

Mary J Werkheiser

Program Manager:

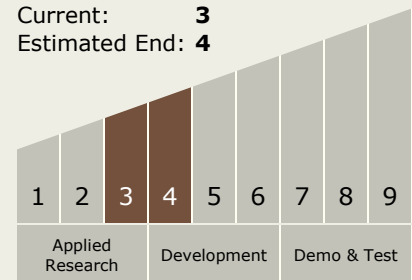
Gary F Meyering

Project Manager:

Thomas A Cwik

Technology Maturity (TRL)

Start: 3
Current: 3
Estimated End: 4



Technology Areas

Primary:

- TX04 Robotic Systems
 - TX04.2 Mobility
 - TX04.2.4 Surface Mobility

Target Destination

Others Inside the Solar System